Energy From a Wind Turbine

The Power Produced is Proportional to the Cube of the Wind Speed

Theoretical Maximum Power Output
$$= 0.297 \, \rho \, A \, V^3$$
(59% of the total energy can be extracted)
V = wind speed
A = area swept by the blade(s)
ρ = density

For Average Condition

$$P/m^2 = 6.1 \times 10^{-4} \, V^3$$